

Network Resilience for Branch Offices and Remote Sites



Ensure uptime at branch offices and remote sites. Identify and remediate issues at the network edge before they become failures, with *Smart OOB™*. Maximize WAN resilience with *Failover to Cellular™* to 4G LTE networks.

Deploy at retail stores or at branch offices across the globe and manage them efficiently with Lighthouse CMS.

Problem: IT interruptions are highly detrimental to business revenue and reputation. Enterprise IT administrators manage complex and heterogeneous networks, compute, storage and power infrastructure distributed around office buildings and remote sites; and it can take hours - sometimes days - to completely recover from an IT interruption.

Solution: Opengear Resilience Gateway™ deploys alongside network, power and other IT infrastructure at the remote site. It monitors everything including the physical environment to proactively detect faults and ensure fast recovery. It provides secure out-of-band access and control, even during a system outage, and delivers transparent failover to high speed 4G LTE in the event of a network outage. The Resilience Gateway prevents IT interruption, reduces truck rolls, and maximizes business uptime for your enterprise.

True Out-Of-Band Management

Smart OOB™ maintains complete control during infrastructure fault conditions and network outages with serial, Ethernet and USB console access to all the server, networking, and power infrastructure at the remote site. Proactive analysis for immediate notification of fault conditions with smart alert escalation through SNMP, email and direct SMS. Auto-remediates common problems with event based Auto-Response custom scripts. Vendor neutral management of UPSes and PDUs for notifications and load shedding during power disruptions. Monitors and logs systems health and physical environmental conditions - temperature, humidity, motion, water, door access, security cameras.

Maximize WAN Resilience

Ensure WAN connectivity and continued business operations at enterprise branch locations with *Failover to Cellular™* to high speed 4G LTE networks. Immediate and transparent failover and fallback operations require no manual intervention. Simple LAN-to-WAN IP Passthrough technology ensures easy interoperability with all major enterprise routers. Embedded cellular module certified to work with major carriers across the globe enables selection of the best cellular carrier at each remote site.

A Scalable Resilience Solution

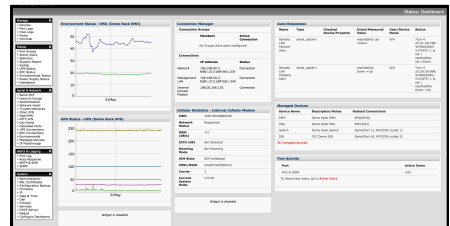
Efficiently manage all enterprise locations with Lighthouse CMS. Instant insights into network and infrastructure status at the edge. Securely access all remote infrastructure out-of-band via cellular or V.92 modems. Create alerts for proactive monitoring and fault detection. Scale faster with Zero Touch Provisioning (ZTP). Reduce IT costs and streamline operations – be it 5 sites or 5000 sites.

Trusted by Enterprises Worldwide

A global company with customers the world over. History of inventing feature-rich solutions for enterprise networks. All products backed by a 4-year standard warranty and lifetime firmware upgrades. Offices in five time zones for responsive customer support. Opengear understands business continuity and resilient networks better than anyone else.

Best in class out-of-band management plus failover to 4G LTE cellular

- Manage all edge routers, switches, firewalls, UPSes, PDUs with serial & USB consoles
- Automatically detect problems and remediate with *Smart OOB™*
- Log audit trails to embedded 4GB local storage
- Easy integration into PCI DSS compliant networks. FIPS140-2, SSL and SSH, stateful firewall, OpenVPN & IPsec
- Environmental and physical sensor alarm notification via SMS, SNMP or email
- Deploy at all enterprise remote sites, manage centrally with Lighthouse CMS



Integrated Dashboard

Easy to use dashboard provides at-a-glance view of your remote sites

Resilience Gateway Benefits

- **Increase IT availability with *Smart OOB™*** access, monitoring, and intel-ligent fault remediation of network, power, and server infrastructure
- **Improve remote site WAN connectivity** with high speed failover. 4G LTE cellular connectivity certified to work on multiple carriers
- **Reduce mean time to repair (MTTR)**, detect and alert on faults and outages, meet SLAs and reduce downtime with remote and auto-remediation
- **Maintain situational awareness and control** during network outages with site monitoring and management delivered out-of-band
- **Reduce IT costs** by equipping administrators with always-available, low level remote control of IT, network, UPS and PDU systems

Who can most benefit from Resilience Gateway?

Retail Chains

Simplify management and secure business continuity across all of your stores. Minimize disruptions to store sales and operations with secure out-of-band access to critical IT infrastructure at each location. Maintain WAN connectivity during system failures, network outages and new site turn-up.

Global Enterprises

Remotely manage all critical infrastructure in bank branches, clinics, construction sites and branch offices around the world. Enforce management access security policies per-user, per-managed device with local and remote AAA. Eliminate technician call-outs and truck rolls to repair common faults.

Managed Service Providers

Add value with always-available remote maintenance and repair of firewalls, routers and other customer premise equipment. Call home to enable inbound remote access to private and firewalled networks. Beat SLAs and enhance service with proactive monitoring and outage auto remediation.

Key Management Features

Cellular out-of-band

Fast to provision, simple to deploy and fully integrated. Always-available, high-performance remote access over 3G or 4G LTE networks. Minimize costs with connectivity watchdog, smart failover and data usage monitoring. More features out of the box, with extensible scripting access and custom development kit for specialized applications.

Automatic problem detection and remediation

Leverage total remote site monitoring and connectivity to detect and respond to issues before they become outages. Power cycle unresponsive equipment, backup and restore known good device configurations. Time-based alert escalation during protracted outages reduces the cost and incidence of false alarms.

Strong security

Lock down interfaces with local and remote AAA including Active Directory, Kerberos, TACACS+ and RADIUS with RSA SecurID. Encrypt sensitive management traffic with IPsec and OpenVPN. Strong logging and auditing for easy PCI DSS compliance and simple, secure console access via your preferred SSH client or HTTPS web UI.

Vendor-neutral power management

Monitor UPS battery status, automate routine maintenance and load testing. Control PDU outlets via serial, USB and Ethernet. Enforce remote power permissions and map managed consoles to outlets, minimize MTTR with manual and automatic remote power control. Uniquely supports over 100 power vendors' equipment.

Central management and Zero Touch Provisioning

Manage and configure large installs with Zero Touch Provisioning (ZTP). Scale with Opengear Lighthouse central management to manage up to 5,000 remote installs.



Technical Specifications

Networking

LAN & WAN: 2 x Gigabit Ethernet Ports
Integrated 4G LTE Cellular Modem

Services: DHCP, DynDNS, TFTP & FTP, Syslog, NTP, IPv6

Routing: Static Routes, Port Forwarding, LAN-WAN IP Passthrough

Security: Stateful firewall, OpenVPN, IPsec, SSH PKI, SSL/TLS, User & group-based ACLs, LDAPS, RADIUS, TACACS+ or Local Passwords, Port Logging, FIPS 140-2

Administration: Web UI & SSH, Nagios & SNMP, CDK for Auto-Response, Lighthouse CMS

Cellular Carrier Certifications

Verizon Wireless, AT&T Carrier Certified PTCRB
NAPRD, GCF-CC, R&TTE, EN 301, A-Tick, CDG TIA/EIA-690, CDG TIA/EIA-98-E

Power

Dual power 9-30V DC external input
Power consumption: Less than 12W

Operating Temperatures

5°C to 50°C / 41°F to 122°F

Dimensions

5.14 x 4.76 x 1.4in or 130 x 120 x 34mm
1.25 lbs or 567 grams

Latest Specifications & Ordering

<http://opengear.com/products/resilience-gateway>

Ordering Information

Model	Serial	USB	Network	Env/DIO	Flash
ACM7004-2-LA, -LR, -LV	4	4	2xGB	4	4GB Flash

All models include 12V external AC/DC adapter



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